

Patent Claims

1. A built-up camshaft comprising
a pipe or a solid rod,
cams,
bearing rings,
end pieces, and
other parts, wherein the cams (3), the end pieces (6), the
bearing rings, and the other parts are connected by means of
longitudinal compression joints to the pipe or to the solid
rod, wherein the parts to be connected are provided with a
suitable surface coating, and wherein the surface coating
prevents a tribocorrosion and increases the load capacity as
compared to conventional compression joints.
2. The camshaft according to claim 1, wherein
the coating (2, 5) is a joint-stable conversion coating.
3. The camshaft according to claim 1, wherein
the coating (2, 5) is a metal coating or a cement coating.
4. The camshaft according to claim 1, wherein
the pipe or the solid rod and/or the cams, the end pieces,
the bearing rings, and the other parts are made out of

metal, ceramics, plastics or other materials, by cutting or non-cutting, by milling or forging in massive or profiled form.

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5. The camshaft according to claim 1, wherein the outer jacket face of the pipe or of the solid rod has a drawn quality or is completely or partially mechanically machined.

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